

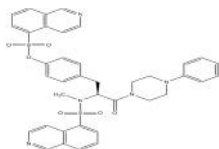
Product: KN-62

ALTERNATE NAME: 4-[(2S)-2-[(5-isoquinolinylsulfonyl)methylamino]-3-oxo-3-(4-phenyl-1-piperazinyl)propyl]phenyl ester, 5-isoquinolinesulfonic acid

CATALOG #: 2495-1, 5

AMOUNT: 1 mg, 5 mg

STRUCTURE:



MOLECULAR FORMULA: C₃₈H₃₅N₅O₆S₂

MOLECULAR WEIGHT: 721.84

CAS No. 127191-97-3

APPEARANCE: Pale yellow solid

SOLUBILITY: DMSO (>50 mg/ml)

PURITY: >98%

STORAGE: Store at -20°C. Protect from air and light

DESCRIPTION: Cell-permeable. KN-62 is a selective inhibitor of Ca²⁺/calmodulin-dependent kinase type II (CaMKII; IC₅₀ = 900 nM). It binds directly to the calmodulin binding site of the enzyme. It does not affect the activity of several other kinases when tested at 10 μM. KN-62 also acts as a non-competitive antagonist of the purinergic receptor P2RX7 (IC₅₀ = 15 nM).

REFERENCES: Hidaka, H., and Yokokura, H. (1996). *Adv. Pharmacol.* **36**, 193-219; Tokumitsu, H., *et al.* (1990). *J. Biol. Chem.* **265**, 4315-4320.

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

RELATED PRODUCTS:

Berbamine dihydrochloride (**Cat. No. 2520-50, 250**)

K252a (**Cat. No. 2013-500, 1000**)

KN-93, Water-soluble (**Cat. No. 1909-1, 5**)

KN-93 (**Cat. No. 2524-500, 100**)

FOR RESEARCH USE ONLY! Not to be used in humans.